

Alliance A-8S Alnico Magnetic Material

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Cobalt Alloy , Nickel Alloy

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Alliance-A-8S-Alnico-Magnetic-Material.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|----------------------------------|----------|
| Density | 6.90 - 7.30 g/cc | 0.249 - 0.264 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------|-------------------|----------|
| Hardness, Vickers | 300 - 500 | 300 - 500 | |
| Tensile Strength, Ultimate | 80.0 - 300 MPa | 11600 - 43500 psi | |
| Modulus of Elasticity | 100 - 200 GPa | 14500 - 29000 ksi | |
| Compressive Strength | 300 - 400 MPa | 43500 - 58000 psi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--|--|--------------|
| CTE, linear | 10.0 - 13.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 5.56 - 7.22 $\mu\text{in}/\text{in}\cdot\text{°F}$ | Parallel DOM |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Specific Heat Capacity | 0.350 - 0.500 $\text{J}/\text{g}\cdot\text{°C}$ | 0.0837 - 0.120 $\text{BTU}/\text{lb}\cdot\text{°F}$ | |
| Thermal Conductivity | 10.0 - 200 $\text{W}/\text{m}\cdot\text{K}$ | 69.4 - 1390 $\text{BTU}\cdot\text{in}/\text{hr}\cdot\text{ft}^2\cdot\text{°F}$ | |
| Maximum Service Temperature, Air | 450 °C | 842 °F | |

| Electrical Properties | Metric | English | Comments |
|-------------------------------------|--|--|-----------|
| Electrical Resistivity | 0.0000400 - 0.0000700 $\text{ohm}\cdot\text{cm}$ | 0.0000400 - 0.0000700 $\text{ohm}\cdot\text{cm}$ | |
| Magnetic Coercive Force, Hc | 1550 Oe | 1550 Oe | |
| | 1600 Oe | 1600 Oe | Intrinsic |
| Magnetic Remanence, Br | 8000 Gauss | 8000 Gauss | |
| Magnetic Maximum Energy Product, BH | 4.0 MGOe | 4.0 MGOe | |
| Curie Temperature | 850 °C | 1560 °F | |

| Descriptive Properties | Value | Comments |
|------------------------------|-------------|------------|
| Reversible Temp Coef., Bd | -0.02 %/°C | |
| Temperature Coefficient, Br | -0.025 %/°C | (20-100°C) |
| Temperature Coefficient, Hci | +0.01 %/°C | (20-100°C) |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China